

FIGURE 1A: V_L DOMAIN

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	10	20	30	40	50
4D5	DIVMTQSHKFMSTSVGDRVSITCKASQDVNTAVAWYQOKPGHSPKLLIYSASFRYT				
HU4D5	DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQOKPGKAPKLLIYSASFLES				
HUV _L κI	DIQMTQSPSSLSASVGDRVTITCRASQDVSSYLAWYQOKPGKAPKLLIYAASSLES				
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	-----			-----	
	V _L -CDR1			V _L -CDR2	

	60	70	80	90	100
4D5	GVPDRFTGNRSGTDFTFTISSVQAEDLAVYYCQQHYTTPPTFGGGTKLEIKRA				
HU4D5	GVPSRFSGSRSGTDFTLTISLQPEDFATYYCQQHYTTPPTFGQGTKVEIKRT				
HUV _L κI	GVPSRFSGSGSGTDFTLTISLQPEDFATYYCQQYNSLPYTFGQGTKVEIKRT				

	V _L -CDR3				

FIGURE 1B: V_H DOMAIN

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	10	20	30	40	50	A
4D5	EVQLQQSGPELVKPGASLKL	SCTASGFNIKDTYIHWVKQRPEQGLEWIGRIYPTN				
HU4D5	EVQLVESGGGLVQPGGSLRLS	CAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTN				
HUV _H III	EVQLVESGGGLVQPGGSLRLS	CAASGFTFSDYAMSWVRQAPGKGLEWVA				ISENG
			-----			-----
			-----			-----
			V _H -CDR1			V _H -CDR2

	60	70	80	ABC	90	100ABC
4D5	GYTRYDPKFDKATITADTSS	NTAYLQVSRLTSEDTAVYYCSRWGGDGFYAMDYW				
HU4D5	GYTRYADSVKGRFTISADTS	KNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDVW				
HUV _H III	SDTYYADSVKGRFTISRDDS	KNTLYLQMNSLRAEDTAVYYCARD				RGGA
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						V _H -CDR3

	110
4D5	GQGASVTVSS
HU4D5	GQGT
HUV _H III	GQGT

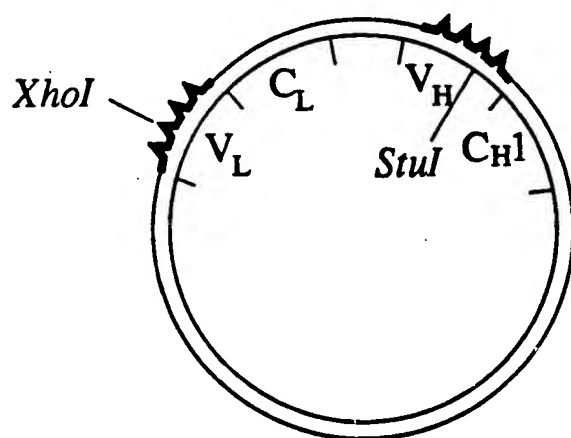
FIGURE 2

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Anneal huV_L or huV_H oligomers to pAK1 template



1. Ligate
2. Isolate assembled oligomers
3. Anneal to pAK1 template (*Xho*I⁻, *Stu*I⁺)
4. Extend and ligate



1. Transform *E. coli*
2. Isolate phagemid pool
3. Enrich for huV_L and huV_H (*Xho*I⁺, *Stu*I⁻)
4. Sequence verify

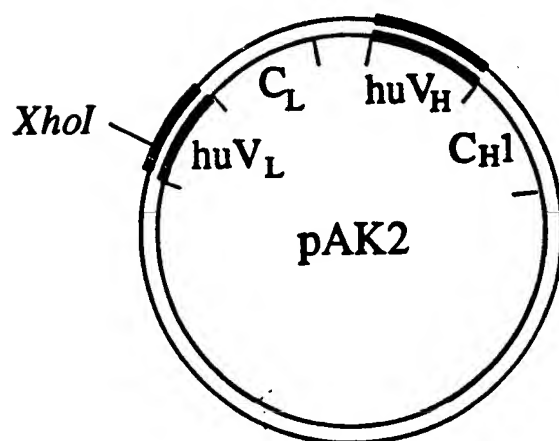


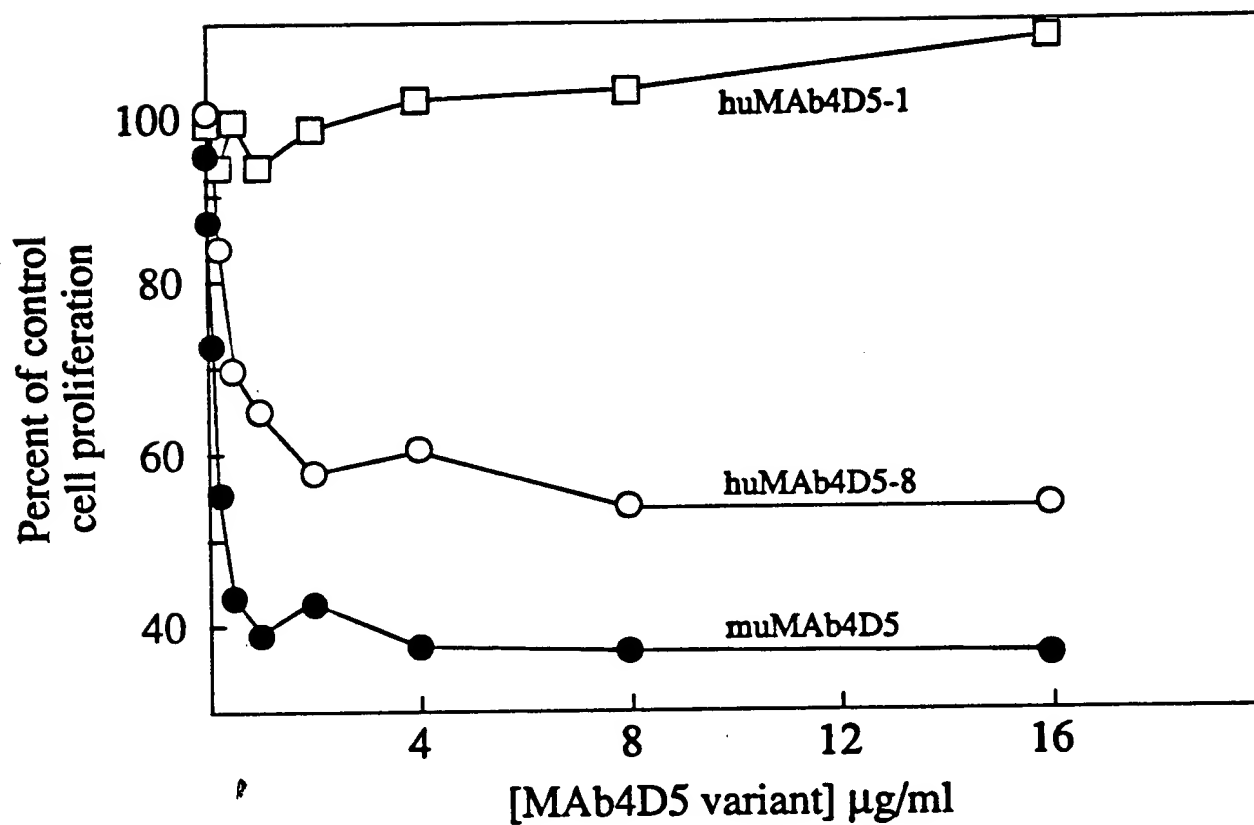
FIGURE 3

FIGURE 4